# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D350-689 REV. A AND INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D350-689 REV 0

REF TCCA STC: SH02-33 REF FAA STC: SR01620NY REF EASA STC: EASA.IM.R.S.01453 REF BRAZILIAN STC: 2005S03-09

### **PURPOSE:**

TO PROVIDE AN OPTIONAL SHOULDER HARNESS KIT TO BE INSTALLED ON THE D350-689-011/-021 DUAL HIGH BACK SEAT INSTALLATIONS.

### **CHANGE:**

ADD OPTIONAL D350-689-017 SHOULDER HARNESS KIT (4 POINT INERTIA REEL) TO PARTS LIST OF IIN-D350-689 REV A AND ICA-D350-689 REV 0 AS DETAILED BELOW.

#### PARTS LIST:

Qty -017	Part Number	Description			
Х	D350-689-017	SHOULDER HARNESS KIT (4 POINT INERTIA REEL.)			
2	D4071-041	SHOULDER HARNESS ASSY			
2	AN5-4A	BOLT			
4	NAS1149D0516J	WASHER			
2	MS21042L5	NUT (OR MS21042-5)			

#### **INSTRUCTIONS:**

TO INSTALL D350-689-017 SHOULDER HARNESS KIT:

- 1. DRILL Ø0.323 HOLES AS INDICATED ON SHEET 2, DETAIL "A" OF THIS SERVICE INSTRUCTION FOR THE INERTIA REEL.
- 2. DEBURR AND TOUCH UP DRILLED HOLES AS INDICATED ON IIN-D350-689 SECTION 3.1 ITEM 5 (PG 4).
- 3. GUIDE SHOULDER HARNESS WEBBING THRU D3031-1 LOOP BY REMOVING LOOP FIRST, POSITIONING WEBBING AND FINALLY REPLACING D3031-1 LOOP. TORQUE FASTENERS TO 15-25 in-lbs.
- 4. INSTALL INERTIA REEL OF D4071-041 HARNESS ASSY USING THE HARDWARE PROVIDED AS PER FIGURE 1 (SHEET 2). ALIGN INERTIA REEL TO ENSURE WEBBING IS STRAIGHT. TORQUE FASTENERS TO 100-140 in-lbs.
- 5. REPEAT STEPS 3 & 4 FOR THE SECOND SHOULDER HARNESS.
- INSTALL D4071-041 LAP BELT ASSY (QTY 2) USING EXISTING HARDWARE PROVIDED WITH D350-689-041/-043 DUAL HIGH BACK SEAT ASSEMBLY. SEE FIGURE 2 (SHEET 2) FOR REFERENCE.

## **WEIGHT AND BALANCE:**

Installation	Weight	LATERAL		LONGITUDINAL	
Installation		Arm	Moment	Arm	Moment
D350-689-017 SHOULDER	4.4 lb	-18.2 in	- 80.1 in-lb	60.7 in	267 in-lb
HARNESS KIT (Seat's Fwd position)	2.00 kg	-0.46 m	-0.92 m-kg	1.54 m	3.08 m-kg
D350-689-017 SHOULDER	4.4 lb	-18.2 in	- 80.1 in-lb	64.7 in	285 in-lb
HARNESS KIT (Seat's Aft position)	2.00 kg	-0.46 m	-0.92 m-kg	1.64 m	3.28 m-kg

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

BY:
D. SHEPHERD (DE # 02)

DATE:
10.04.13
CERT. NO.:
SH02-33
ISSUE NO.:
1

Α	NEW ISSUE.				10.04.13	
REV.			DESCRIPTION	BY	DATE	
DESIGN		18	DART AEROSP	ACE LTD		
DRAWN		18	HAWKESBURY, ONTARIO, CANADA			
CHECKED		UP	DRAWING NO.		REV. A	
MFG. APPR.		N/A	DSI 9499	8	SHEET 1 OF 2	
APPROVED		W)	TITLE		SCALE	
DE APPR.		-#	SHOULDER HARNESS KIT		. NTS	
DATE	10.0	4.13	COPYRIGHT @ 2010 BY DART AEROSPACE LTD  THIS DOCUMENT IS PROVATE AND COMPORTHUL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS  NOT TO BE USED FOR MY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT  WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

